

## FLASHLIGHT WITH SELECTABLE OUTPUT LEVEL SWITCHING

### Abstract

A flashlight has a lamp, a power source, two switches, and a controller connected to the switches. The first switch controls delivery of power to the lamp, and the second switch selects a dimmed brightness level. The first switch may invoke the dimmed level, or a maximum brightness level. The second switch may be a ring rotatable about the axis the flashlight, and either rotatable through a wide range of positions, with sensor circuitry to detect the absolute position, or having a limited range of rotation, with dimmed level selection provided by a duration of momentary rotation in either direction. The second switch may be positioned outside a leak resistant housing, and may include a magnet detectable by magnetic field sensors within the chamber.